Nokia
5G-ready Private Wireless

https://www.dac.nokia.com

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Industry trends and new applications have outgrown many wireless networks

Demands for automation, increased cloud adoption, security, smart tooling, augmented reality, and sensor deployments all require pervasive connectivity with reliable coverage, high data rates, and low latency that exceed the capabilities of many networks.

CHALLENGES

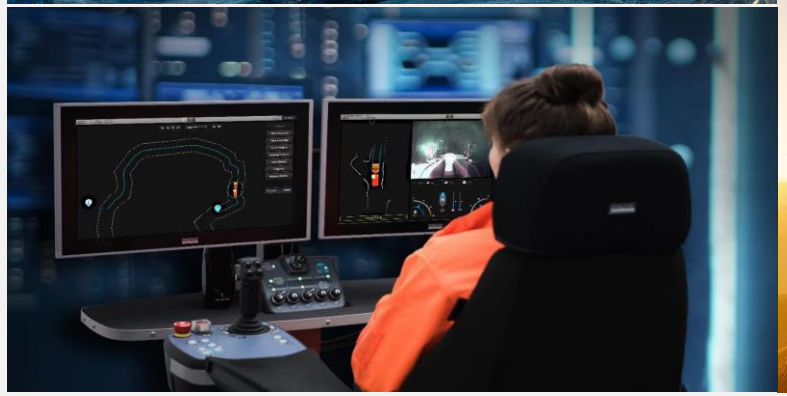
Everything needs to be ‘connected’ and rapidly changing business needs demand flexibility that only wireless networking can truly provide. Unfortunately, consumer-oriented technologies suffer from signal interference, distance limitations, and high latency that constrain the ability of an enterprise to effectively leverage advancements in automation, AI, and other industry trends.

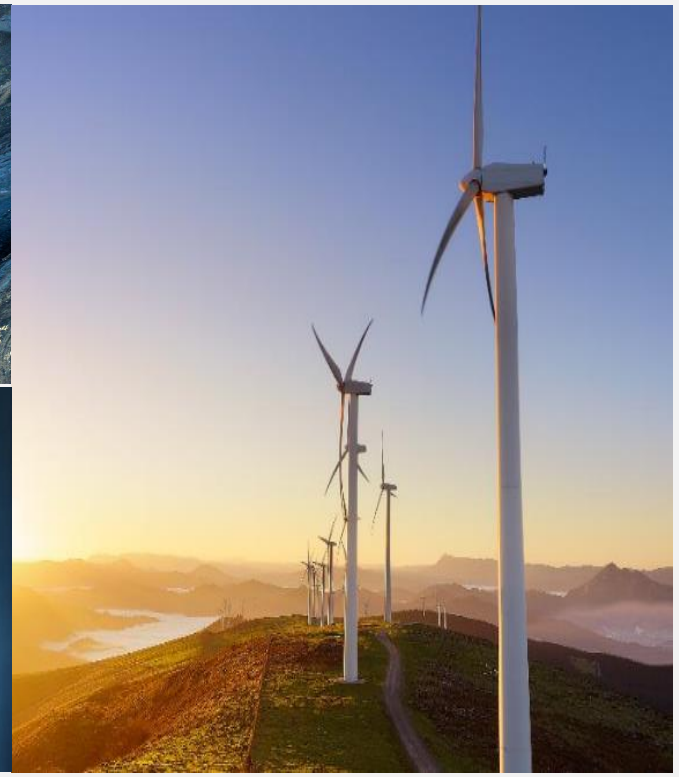
IDEAL SOLUTION

Proven, ultra-reliable, and secure connectivity technology, based upon international standards that support a large ecosystem of sensors, video cameras, and other communications devices will ensure ease of deployment and continued evolution to stay abreast of constantly emerging technologies.

DESIRED OUTCOMES

Through the Nokia Digital Automation Cloud (DAC), enterprises can easily deploy plug-and-play private wireless networks with standards-based 4G and 5G technologies currently used by billions of people worldwide. Simple, secure, and economical, Nokia DAC 5G-ready Private Wireless provides the scalable communications networking capabilities essential for business digital transformation and IoT initiatives.





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5G-ready Private Wireless

Accelerate your Digital Transformation with ultra-reliable, flexible, secure and scalable networking and communications capabilities

Nokia Digital Automation Cloud (DAC)

Nokia (DAC) is a high-performance, end-to-end private wireless networking and edge computing platform. Offered as a service, it lets you combine plug-and-play connectivity with on-premises data management and processing to support real-time applications for smart manufacturing, predictive maintenance and remote operations.

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Industry-proven

Supports mission critical applications

Optimized for high performance / low latency, and simplified for ‘plug and play’

5G-ready as the extended ecosystem continues to mature

Private wireless across all verticals, which Nokia has successfully deployed today

Integrated with Azure

Allows customers to keep critical data securely within their IT networks, at the Azure edge, or in the Azure cloud

Ultra scalability that works across geographies and continents, ideal for large Azure customers

Provides access to API frameworks to help solve enterprise digitalization challenges and opens the door to deploy many IoT applications and a large amount of data analytics

Nokia Digital Automation Cloud (DAC) 5G-ready Private Wireless with Microsoft Azure integration

Nokia DAC extends the reach of Azure-based applications to the wireless environment, unlocking their capabilities and increasing access to their usage.

Nokia DAC Enabling Shipping Ports

Low latency and mobility were crucial in being able to safely operate equipment such as cranes equipped with video capabilities, as well as location-based asset tracking in a dynamic and widespread environment.

Nokia DAC Enabling Mining Operations

Reliable wide area coverage with a supporting ecosystem of sensor-enabled hardhats and other safety equipment successfully improved operations resulting in more secure working conditions and less downtime.

Nokia DAC Enabling Industry 4.0

Ultra low-latency, the ability to operate in ‘noisy’ environments, and capacity for large amounts of sensor endpoints proved essential for replacement of many kilometers of cabling and unchaining the factory floor to make possible rapid reconfiguration of production lines.

Nokia DAC is deployed across all Industries

- Manufacturing
- Logistics & Transportation
- Mining , Oil & Gas
- Utilities
- Public Safety
- Smart Cities & Agriculture

Brussels Airport enables Digital Transformation with 5G-ready Nokia DAC

“Brussels Airport confirms its pioneering position in digital innovation by installing its own 5G-ready network as one of the first sites in Belgium and as one of the first airports in Europe. In addition to allowing a further optimization of the airport’s operations, the 5G technology will also enable us to accelerate digital innovations and facilitate the integration of future technologies”

- **Arnaud Feist**, CEO of Brussels Airport Company.

Needing a Wireless Upgrade

WiFi and public 4G are not reliable enough and the connections are neither pervasive nor fast enough to deploy automation technology and devices needed to increase efficiency and streamline airport operations.

Powering Digital Transformation

Nokia DAC is the digitalization platform that provides the reliable, high-capacity coverage to economically reach areas across Brussels Airport with private and secure wireless networking that has the low latency to enable digital innovations.

New Airport Capabilities

Thanks to the reliability, low latency, and higher capacity of 5G, the airport will now be able to deploy additional technologies such as IoT (Internet of Things), automated vehicles, mobile safety systems, and track & trace technology.

Partner with Nokia to extend Azure's reach and accelerate your customer's Digital Transformation

For more detailed information and use case examples please visit:

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